

6

Louisiana LEAP

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 Louisiana LEAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the Louisiana LEAP. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Louisiana brings bayou routes, levees, music blocks, and Gulf Coast maps. Strong math uses that same care: read the task, select a strategy, build the solution, and read every label before solving.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Louisiana students, each lab is a short route through bayou routes, levees, music blocks, and Gulf Coast maps: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Louisiana Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Louisiana LEAP path.



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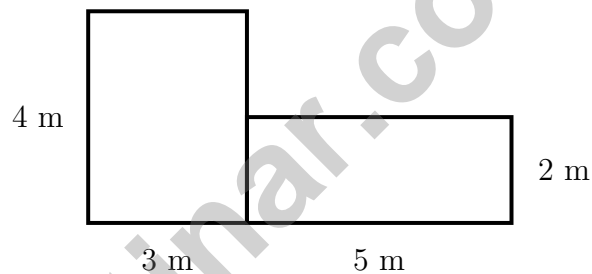
1) A rectangle is split into two parts with areas 35 and 21. Both parts share one dimension of length 7. What is the total area?

- A. 56 C. 42
 B. 70 D. 49

2) A bag of flour has a mass of 2000 grams. A block of butter has a mass of 250 grams. How many more grams does the flour weigh than the butter?

- A. 250 grams C. 2000 grams
 B. 1750 grams D. 2250 grams

3) Sam's bedroom is shaped like an L. One part is 3 m long and 4 m wide. The other part is 5 m long and 2 m wide. What is the total area of his bedroom?



- A. 12 sq m C. 22 sq m
 B. 10 sq m D. 120 sq m

4) Which shape covers more space: a rectangle that is 3 units by 7 units, or a square that is 5 units by 5 units?

- A. The rectangle C. They cover the same space
 B. The square D. The rectangle is taller



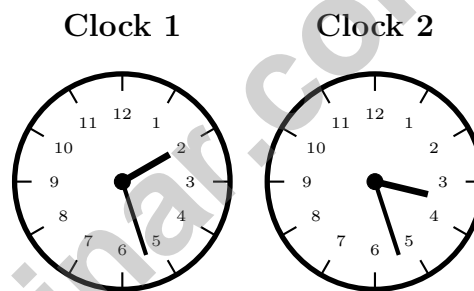
5) Talia bought 4 packs of sticker sheets. Each pack has 7 sticker sheets. How many sticker sheets did she buy?

- A. 11 sheets C. 24 sheets
 B. 32 sheets D. 28 sheets

6) The pattern for multiples of 7 starts: 7, 14, 21, 28, 35, 42, ...
What is the next number?

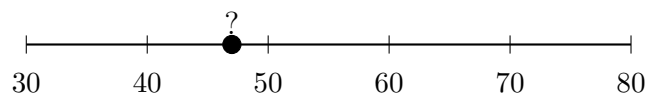
- A. 43 C. 49
 B. 48 D. 50

7) Which clock shows 3 : 27?



- A. Clock 1 C. Neither
 B. Clock 2 D. Both

8)



Look at the number line. The number shown is between 40 and 50. To which number should it round?

- A. 40 C. 50
 B. 45 D. 60



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9) Use a 10-groups strategy to find 6×7 . Which expression is correct?

- A. Think $6 \times 10 = 60$, then subtract 12
 B. Think $6 \times 5 = 30$, then add 6
 C. Think $6 \times 8 = 48$, then add 6
 D. Think $6 \times 10 = 60$, then subtract 6×3

10) A number line from 0 to 1 is divided into equal parts. Which first tick is closest to 0?

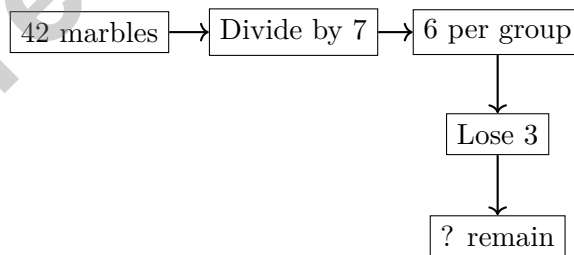
- A. $\frac{1}{2}$
 B. $\frac{1}{4}$
 C. $\frac{1}{6}$
 D. $\frac{1}{8}$

11) Look at the number line. Which fraction equals $\frac{3}{4}$?



- A. $\frac{1}{2}$
 B. $\frac{2}{4}$
 C. $\frac{1}{4}$
 D. $\frac{3}{4}$

12) Tommy has 42 marbles. He divides them into 7 equal groups for a game. Then he loses 3 marbles from one group. How many marbles are in that group now?



- A. 3
 B. 6
 C. 7
 D. 42

1) What number makes the equation true?

$$20 \div 4 = \square$$

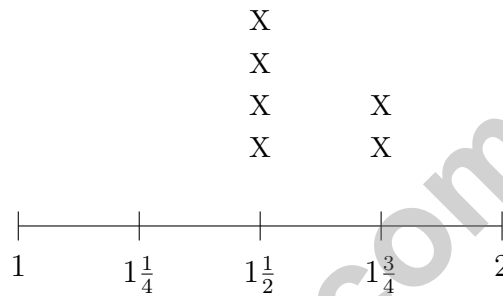
A. 4

C. 6

B. 7

D. 5

2) Mia's line plot shows snack weights in ounces: $1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}, 2$.



What is the difference between the largest and smallest numbers of X's?

A. 1

C. 3

B. 2

D. 4

3) Ben has 24 crackers to share equally among 6 friends. How many crackers does each friend get?

A. 4

C. 3

B. 6

D. 5

4) What is $2 + 2 + 2 + 2 + 2$? What multiplication sentence matches this?



5) Look at the rows in a multiplication table:

×	1	2	3	4
3	3	6	9	12
4	4	8	12	16

What increases by 3 in the row for 3?

- A. The multiplier on the top
- B. The table title
- C. The column number
- D. The product each time
- 6) A square has an area of 25 square inches. How long is each side?
- A. 5 inches
- B. 4 inches
- C. 6 inches
- D. 12 inches
- 7) A rectangular garden can be tiled into two smaller rectangles, each with width 3. One rectangle is 3 by 10 and the other is 3 by 6. What is the total area?
- A. $3 \times (10 + 6) = 3 \times 16 = 48$
- B. $3 + 10 + 6 = 19$
- C. $(10 + 6) = 16$
- D. $3 \times 10 \times 3 \times 6 = 5400$
- 8) A sack of potatoes weighs 10 kg. A basket of carrots weighs 3000 g. Which weighs more?
- A. Potatoes
- B. Carrots
- C. They weigh the same
- D. Cannot determine



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1) A picture graph shows flowers. Each flower symbol is 3 flowers. Pile 1 has 4 symbols, Pile 2 has 5 symbols. What is the total number of flowers?

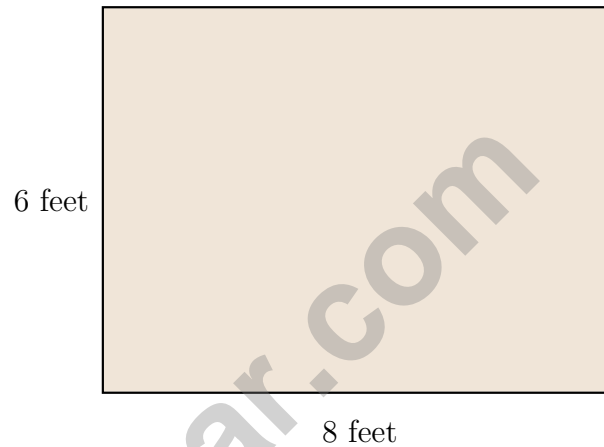
A. 9

C. 15

B. 12

D. 27

2) Lily is building a sandbox for her backyard. The sandbox is 8 feet long and 6 feet wide. What is the area of the sandbox?



A. 48 sq ft

C. 14 sq ft

B. 28 sq ft

D. 56 sq ft

3) Which expression uses the associative property to regroup $4 \times (3 \times 2)$ without changing the order of the factors?

A. $4 + (3 \times 2)$

C. $(4 \times 2) \times 3$

B. $(4 \times 3) + 2$

D. $(4 \times 3) \times 2$



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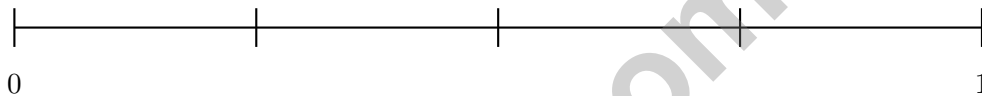
4) What is 513 rounded to the nearest 10?

- A. 500 C. 513
 B. 520 D. 510

5) Two fraction bars are shown. Bar 1 shows $\frac{2}{3}$ shaded. Bar 2 shows $\frac{4}{6}$ shaded. The shaded regions are the same size. Which statement is true?

- A. $\frac{2}{3} < \frac{4}{6}$ C. $\frac{2}{3} = \frac{4}{6}$
 B. $\frac{2}{3} > \frac{4}{6}$ D. Cannot be compared

6) On a number line from 0 to 1 split into 4 equal parts, what fraction comes after $\frac{2}{4}$?



- A. $\frac{1}{4}$ C. $\frac{3}{4}$
 B. $\frac{2}{4}$ D. $\frac{4}{4}$

7) A floor tile is 1 inch by 1 inch. A floor has 8 rows and 6 tiles in each row. What is the area?

- A. 14 sq in C. 28 sq in
 B. 48 sq in D. 64 sq in



Practice Test Answer Keys

How to use this section with a Grade 3 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(3.MD.C.7c)** $35 = 7 \times 5$ and $21 = 7 \times 3$, so total is $7 \times (5 + 3) = 7 \times 8 = 56$.
- 2) **Choice B is correct.** **(3.MD.A.2)** Subtract: $2000 - 250 = 1750$ g.
- 3) **Choice C is correct.** **(3.MD.C.5)** Part 1: $3 \times 4 = 12$ sq m. Part 2: $5 \times 2 = 10$ sq m. Total: $12 + 10 = 22$ sq m.
- 4) **Choice B is correct.** **(3.MD.C.5)** Rectangle: $3 \times 7 = 21$ square units. Square: $5 \times 5 = 25$ square units. The square covers more space.
- 5) **Choice D is correct.** **(3.OA.A.1)** 4 packs with 7 sheets each means 4 groups of 7. So $4 \times 7 = 28$ sheets.
- 6) **Choice C is correct.** **(3.OA.D.9)** Add 7 each time: $42 + 7 = 49$. Multiples of 7 always increase by 7.
- 7) **Choice B is correct.** **(3.MD.A.1c)** At 3:27, the minute hand points to 27 minutes, just past the 5. The hour hand is between 3 and 4, just past 3. Clock 2 shows this accurately.
- 8) **Choice C is correct.** **(3.NBT.A.1)** The point is closer to 50 than to 40. Numbers from 45 to 49 round to 50.
- 9) **Choice D is correct.** **(3.OA.C.7)** $6 \times 7 = (6 \times 10) - (6 \times 3) = 60 - 18 = 42$. Breaking the fact into known facts is a good mental-math strategy.
- 10) **Choice D is correct.** **(3.NF.A.2a)** Eighths are the smallest pieces listed, so the first tick at $\frac{1}{8}$ is closest to 0.
- 11) **Choice D is correct.** **(3.NF.A.3)** $\frac{6}{8}$ and $\frac{3}{4}$ mark the same point on the line.
- 12) **Choice A is correct.** **(3.OA.D.8)** Step 1: Marbles per group: $42 \div 7 = 6$ marbles. Step 2: Lose from one group: $6 - 3 = 3$ marbles.
- 13) **Choices B and D are correct.** **(3.NF.A.3d)** With numerator 1, smaller denominators give larger pieces. Thirds and halves are larger than fourths. A and C have larger denominators (sixths and eighths) so they are smaller. E equals $\frac{1}{4}$ (not greater).
- 14) **Choice A is correct.** **(3.MD.C.5b)** $9 \times 2 = 18$ unit square stickers are needed.
- 15) **Choice D is correct.** **(3.OA.B.6)** If $35 \div \square = 7$, rewrite this as a missing-factor problem: $7 \times \square = 35$. We ask: 7 times what gives 35? Since $7 \times 5 = 35$, the missing divisor is 5. This shows division working backwards from multiplication.
- 16) **Choice A is correct.** **(3.OA.A.3)** Divide: $9 \div 3 = 3$ slices per friend.
- 17) **Choice B is correct.** **(3.NF.A.2)** Reading left to right on the number line: first tick ($\frac{1}{6}$), third tick ($\frac{3}{6}$), fifth tick ($\frac{5}{6}$). Least to greatest.
- 18) **The correct answer is 4 units.** **(3.MD.C.7)** Area = length \times width. Since $24 = 6 \times w$, the missing width is 4 units.
- 19) **Choice D is correct.** **(3.OA.A.4)** Use the inverse: $8 \times 3 = 24$, so $24 \div 3 = 8$.
- 20) **Choice B is correct.** **(3.NF.A.2b)** Point W at 2 is the 4th half-mark: $\frac{4}{2} = 2$.
- 21) **Choice C is correct.** **(3.NF.A.3a)** $\frac{3}{6} = \frac{1}{2}$ because both represent one-half of the ribbon.
- 22) **The correct answer is 4 equal sides.** **(3.G.A.1)** A rhombus is defined by having 4 equal sides. When that rhombus also has 4 right angles (like a rectangle), it meets the definition of a square. A square is the shape that has properties of BOTH a rhombus and a rectangle.
- 23) **Choice A is correct.** **(3.NF.A.3b)** Eli ate $\frac{1}{2}$ and Noah ate $\frac{2}{4}$. These are equivalent: $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.
- 24) **Choice C is correct.** **(3.MD.C.7b)** Area = length \times width = $7 \times 3 = 21$ square inches.
- 25) **Choice B is correct.** **(3.NF.A.1)** $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$ whole. So 2 unit fractions of $\frac{1}{2}$ make a whole.
- 26) **Choice B is correct.** **(3.MD.C.6)** Count the top row: 5 squares. Count the center column below: 2 more squares. Total: $5 + 2 = 7$ unit squares.
- 27) **The correct answer is 1 inch.** **(3.MD.B.4)** Range = max - min = $8 - 7 = 1$ inch.
- 28) **Choice D is correct.** **(3.NBT.A.3)** $4 \times 20 = 4 \times (2 \times 10) = (4 \times 2) \times 10 = 8 \times 10 = 80$. This uses associative property: you break 20 into 2×10 , multiply the single digits first, then multiply by 10.
- 29) **Choice B is correct.** **(3.G.A.2)** Two shaded parts out of eight equal parts is $\frac{2}{8}$.
- 30) **Choice D is correct.** **(3.OA.A.2)** This is measurement division: How many groups of 10 fit in 30? $30 \div 10 = 3$.



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Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 6 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Scientist

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This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

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